AYRA

ERO MINIBEAM 12

RGBW LED beam movinghead

User manual

Safety precautions

WARNING: This unit may cause serious injury to the eyes when used incorrectly. It is therefore strongly advised to read this user manual carefully, to get familiance yourself with the functions of this device.

WARNING: This unit must be operated by, or under the supervision of an adult. This device is not suitable for children.

WARNING: Do not look directly into the beam from a short distance. This may cause serious injury to the eyes. Ayra is not responsible for any injuries caused by incorrect use of this device.

Installation requirements:
- Always check the power supply to which you want to connect the device. If the voltage requirements do not meet, do not connect the device as this may cause serious damage.
- This device must be installed by a professional technician, in a standing or hanging position. Only use the included mounting bracket if you want to position the unit against a ceiling or truss system.
- When installed in a hanging position above your audience, this unit **MUST** be secured by using a safety cable, capable of holding 10x the weight of this device.
- The unit is designed to be installed with a halfcoupler or G-clamp, by using the included mounting bracket. Direct installation with proper bolts is also possible.
- Make sure there are no flammable objects in the direct environment of the device.
- Do not block the beam-exit and fan.
- Keep a minimum distance of 0.25 meter from any walls to provide sufficient cooling.
- Make sure the beam-exit and fan are not blocked by any objects in the near environment.
- Always use the included power supply. Contact your local dealer for a replacement unit if necessary.

Maintenance and protection
- Keep the unit away from dusty environments, as this may have negative effects on the fan-cooling system and optics. Clean the optics and fan with a small, soft brush and vacuum cleaner when needed. Clean the housing of the unit with a damp cloth. **WARNING:** Always disconnect the unit from the power supply when cleaning the unit. Reconnect the unit only when any moist on the fixture has evaporated completely.
- Do not switch the power on and off frequently, as this may cause serious damage to the unit.
- Avoid heavy shocks and collision during transport and use, as this may cause damage to the LED light source, electronic circuit, optics and housing.
- Keep the device away from moisture, rain, water or any liquids as this may cause a short circuit and/or electric shocks. If any liquid enters the unit, power supply or housing of the unit, disconnect the unit immediately and do not reconnect the power supply. Contact your local dealer or technician to inspect the unit for any damage.

Box contents

Box contents
1x ERO Minibeam 12
1x power cable
1x installing bracket
1x small bag with mounting hardware

Unit and accessory inspection
- Always use the supplied power cable to connect the unit to a power supply. If the cable appears broken or has visible damage, do not use it.
- If the unit is not going to be used for a longer period of time, disconnect it from the power supply and store it in a dust-free environment.
- Always check the unit for possible damage before use. If you suspect that something is wrong with the unit, do not connect it to a power source! When you suspect that your unit is broken or damaged, contact your local dealer or a certified technician to inspect the unit.
- When your device does not generate any light, do not look directly into the lens. When the fixture suddenly produces a beam, it may cause injury to your eyes.

Device overview

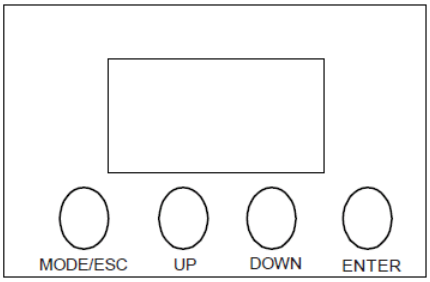
1. Beam output
2. Control panel with display and menu-functions
3. On/off switch
4. Fan
5. IEC power inlet
6. DMX input
7. DMX output

Setting up the unit

To activate the unit, connect the included power supply to the unit and a suitable 230V, 50 Hz power outlet. Switch the on/off switch to the 'ON' position, the LED movinghead will activate.

Give the movinghead time to calibrate the stepping motors, which are used to determine the position of the head. You may hear and see some shaking, which is normal. The stepping motors use an end point to determine the beginning and end of their movement. After calibration, the movinghead will start the previously used mode, but by default it is set to DMX mode.

The status of the movinghead is shown on the display (which automatically shuts off after a few seconds of inactivity). The shown values determine the current status and can be changed by pressing the buttons on the control panel. The four buttons each have their own function, for easy navigation.



Press the 'MODE/ESC' button to switch modes, so you can easily select the built-in automatic, music controlled or DMX mode.

To adjust settings, or to read certain values, the display will show several codes. An explanation for each code can be found below:

Display status	Value options	Function
DMX 512	001-512	DMX address
Channel	14/29 CHs	DMX CH mode, 13 or 29 DMX-channels
Master Sound	0/99	Sound activated mode sensitivity
Master Auto	00-15	Auto run mode
Master Prog	00-15	Built-in program selection
Master Fade	00-15	Colour fade(fast-slow)
Master Shut	00-15	Strobe(Fast to Slow)
MOTOR X	000-255	Pan(Slow to Fast)
MOTOR Y	000-255	Tilt(Slow to Fast)
Info Sys	/	System info
Setup R	000-18000	Red LED intensity
Setup G	000-18000	Green LED intensity
Setup B	000-18000	Blue LED intensity
Setup W	000-18000	White LED intensity
Setup W	000-18000	RGBW full on intensity

When using several fixtures in master/slave mode, please note that only the first fixture can be set to master settings. The other fixtures will respond as slaves, which will mimic the movement, intensity and colours of the first fixture.

Working modes:

The ERO Minibeam 12 movinghead is equipped with several working modes:

- Sound-active mode: The fixture will react to music with an internal microphone. The microphone sensitivity is digitally adjustable with the LCD-display and menu-buttons.
- Auto mode: The fixture will run through different colours and the built-in programs. The programs and colours are adjustable with the LCD-display and menu buttons.
- Slave mode: The unit will run as slave fixture, thus mimicking the master fixture. XLR-XLR cables are required for this function (not included).
- DMX control mode: Select a DMX starting address and a DMX channel mode to operate this fixture with a DMX-controller. The fixture either uses 13 or 29 channels, depending on the settings you have chosen.

DMX Channel	Function	Description	Value
1	Dimmer	Dimmer Off to Full	0-225
2	Strobe	Strobe(slow to fast)	0-225
3	Pan	Fan	0-255
4	Tilt	Tilt	0-255
5	R	Red LED intensity	0-255
6	G	Green LED intensity	0-255
7	B	Blue LED intensity	0-255
8	W	White LED intensity	0-255
9	Auto run	Built-in programs	0-255
10	Auto run speed	Built-in programs(slow to fast)	0-255
11	Fan/Tilt speed	Pan/Tilt speed(Slow to Fast)	0-255
12	Fan fine	Fan fine	0-255
13	Tilt fine	Tilt fine	0-255
(The below channels are available only in 29CH mode.)			
14	Cluster 1: Red dimmer	Red 0-100%	0-255
15	Cluster 1: Green dimmer	Green 0-100%	0-255

16	Cluster 1: Blue dimmer	Blue 0-100%	0-255
17	Cluster 1: White dimmer	White 0-100%	0-255
18	Cluster 2: Red dimmer	Red 0-100%	0-255
19	Cluster 2: Green dimmer	Green 0-100%	0-255
20	Cluster 2: Blue dimmer	Blue 0-100%	0-255
21	Cluster 2: White dimmer	White 0-100%	0-255
22	Cluster 3: Red dimmer	Red 0-100%	0-255
23	Cluster 3: Green dimmer	Green 0-100%	0-255
24	Cluster 3: Blue dimmer	Blue 0-100%	0-255
25	Cluster 3: White dimmer	White 0-100%	0-255
26	Cluster 4: Red dimmer	Red 0-100%	0-255
27	Cluster 4: Green dimmer	Green 0-100%	0-255
28	Cluster 4: Blue dimmer	Blue 0-100%	0-255
29	Cluster 4: White dimmer	White 0-100%	0-255

Installation and maintenance

Mounting the bracket
On the bottom of the movinghead, there are two holes to mount the included bracket, using the included bolts. It is possible to mount a G-clamp or halfcoupler to this bracket. It is also possible to mount the bracket on a ceiling, wall, bar, floor, desk or any flat surface. Use proper equipment to install this fixture, as a dropping fixture may cause severe injury! Ayra is not responsible for any damage or injuries caused by improper installation.

Cleaning
Make sure to clean the exterior of the unit frequently, as the build-up of dust and dirt may have negative effects on the cooling and optics of the fixture.

The exterior (plastic parts) of the unit can be cleaned with a damp cloth. The optics of the fixture can be cleaned with a clean cloth or paper towel, with the addition of a non-aggressive glass cleaning solution.

Clean the fan outlet and the cooling vents with a small brush, while using vacuum cleaner suction to remove any loose dust and/or dirt.

Clean the exterior of this fixture once a month. When using this fixture intensively, the frequency of maintenance needs to be increased.

Transport
When using this fixture in mobile setups, provide sufficient protection during transport. Use the original packaging of this unit, or use a professional flightcase with proper foam inlay. This way the electronics, optics and housing are protected against severe shocks, exterior damage and failing electronics.

Make sure the moving parts of the movinghead (pan and tilt motors) are secured during transport. Shocks and fierce movement of the pan and tilt stepping motors may cause permanent damage.

After use, let the unit cool down for at least 10 minutes. When using DMX, use the 'black out' option on your DMX controller. This way the unit is positioned in a static stand-by mode and the internal fan is able to cool down the internal electronics, which decreases the chance of damage during transport.

Replacing the internal fuse
First check whether a failing power supply may be the cause of malfunction. When you suspect that the internal fuse is broken, the fuse can be replaced by removing the fuse cover, located directly below the power inlet.
WARNING: Before changing the fuse, always disconnect the fixture from your wall outlet or any other power supply to prevent electric shocks.
Always replace a broken fuse with a fuse that has the same type and rating. After the fuse has been replaced, always close the fuse-cover. Reconnect the fixture to your power supply and check whether the problem is solved. When this does not solve your problem, contact your local dealer for help.
IMPORTANT: A spare fuse is located inside a special compartiment of the fuse holder.

Spare parts
This unit has no user serviceable parts inside. When any damage to internal components occurs, contact your local dealer or a specialized technician in order to repair the fixture.

Checkup
To prevent dangerous situations, make sure your fixture is in optimal condition before using it. Check

your fixture frequently by using the following checklist:
- All screws must be mounted tightly.
- Check all screws and metal parts for corrosion. No visible corrosion may be present.
- The exterior of your fixture must be in optimal condition. Check your fixture for dents, cracks or missing parts.
- Your installation spot must be in optimal condition. Check your installation spot for corrosion, cracks, dents and strength.
- Electrical components (connectors and cables) must be in optimal condition. Any form of damage (cuts, exposed wire cores or any other visual deformities should not be present.

If any visual or mechanical damage is detected, contact your local dealer or a specialized technician. Do not use a damaged or failing fixture.

Connectors and wiring schematics:

DMX-connections:

DMX-output

XLR mounting-socket:

DMX-input

XLR mounting-plug:

Electrical wiring:

Cable	Pin	International
Brown	Live	L
Blue	Neutral	N
Yellow/Green	Earth	⏚

Technical specifications

- high power LED beam movinghead
- light source: 12x RGBW 10 Watt LED module
- CREE branded LED light source
- expected LED lifespan: 100.000 hours
- RGBW colour mixing for fluent color changes
- control over four seperate LED segments for creative lighting applications and unique chase-effects
- high-precision stepping motors with smooth 16-bit movement
- movement speed adjustable for pan and tilt
- wide movement range: 540° pan, 180° tilt
- 0 - 100% dimmer for each colour + master dimmer
- narrow beam angle: 8°
- large graphic LCD display with menu buttons for easy access to several parameters and settings
- display flip function, for easy menu operation in hanging position
- working voltage: 90 – 250V AC, 50/60 Hz
- power: 120W max
- weight: 5 kg

Working modes:
- Sound-active mode with internal microphone, digital sensitivity adjustment
- Auto mode with eight internal, customizable programs
- Master/slave mode
- DMX mode

DMX control:
- 13 or 29 DMX-channels
- dimmer function for each colour + master dimmer
- dimmer function for each colour in each segment + master dimmer (only in 29-channel mode)
- strobe mode (0 – 30 Hz)
- pan and tilt control
- pan fine and tilt fine control
- RGBW master control (0 – 100% for each colour)
- pan/tilt speed adjustment (combined)
- auto run, select different internal chases with certain DMX values
- auto run speed, variable speed for pan andt tilt combined in auto mode

Connectors:
- DMX: 3p XLR male and female
- Power: IEC power connector

Included accessories:
- Power cable with Shucko & IEC connectors
- Mounting bracket

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